

**Flood Control Project Maintenance**  
**2015 Structure Summary Report**  
**Overall Unit and Item Ratings**

## Reclamation District No. 2096 Wetherbee Lake

### Wetherbee Lake Pumping Plant & Navigation Gate

Overall Unit Rating	Rated Item	Item Rating
<b>M</b>	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	M
	Cranes	N
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	M
	Trash Rakes	N
	Sluice / Slide Gates	N
	Electric Gate Operators	A
	Manual Gate Operators	U
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	A
	Security Fencing	A
	Intake and Discharge Pipes	A

**Flood Control Project Maintenance****Unit Cover Sheet****2015 Pumping Plant Inspection Results****Reclamation District No. 2096 Wetherbee Lake**

Pumping Plant
Wetherbee Lake Pumping Plant & Navigation Gate

Pumping Plant Rating	<b>M</b>
Date of Inspection	07/23/2015
DWR Inspector	Maksim Khashchuk
Accompanied By	Randy Barker RD-2096 Wetherbee Lake

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Reclamation District No. 2096 Wetherbee Lake**

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		07/23/2015 07/23/2015	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Operating Log			37.773864 °	37.773864 °
				-121.298427 °	-121.298427 °
DWR ID	DWR_RD2096_56_t_2012_1				
Action/Comments					
Inspector Comments: O&M log presented at time of inspection					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_1\_20150814\_00013.jpg



View of the Operating Log and O&M Manual.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_2				
Action/Comments					
Inspector Comments: O&M manual was present at time of inspection. LMA is in procees of creating posted operating instructions at pump station.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Plant Building			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_3				
Action/Comments					
Inspector Comments: Building protects the controls only.					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_3\_20150709\_00002.jpg



View of the pumping facility and navigation gate.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Reclamation District No. 2096 Wetherbee Lake**

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		07/23/2015 07/23/2015	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations	GPS Latitude/Longitude			
		Start	End		
Item	Communications	37.773864 °	37.773864 °		
		-121.298430 °	-121.298430 °		
DWR ID	DWR_RD2096_56_t_2012_4				
Action/Comments					
Inspector Comments: Trustee has cellular phone.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Safety			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_5				
Action/Comments					
Inspector Comments: Missing guard rail on navigation canal. Missing fire extinguisher.					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_5\_20150814\_00014.jpg



View of the missing guard rail.

LM Start	0.00	Rating **	N	Issue No.	6	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start	End	
Item	Cranes			37.773864 °	37.773864 °	
				-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_6					
Action/Comments						
Inspector Comments: Item does not apply, cranes are not present on site.						

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Reclamation District No. 2096 Wetherbee Lake**

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		07/23/2015 07/23/2015	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Pumps			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_7				
Action/Comments					
Inspector Comments: Pumps appear to be in working order.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Power			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_8				
Action/Comments					
Inspector Comments: No electrical deficiencies observed. Backup generators can be brought in on an emergency basis.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Motors, Engines, Fans & Gear Reducers			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_10				
Action/Comments					
Inspector Comments: All items appear operational.					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_10\_20150814\_00015.jpg



View of the pump motors.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Reclamation District No. 2096 Wetherbee Lake**

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		07/23/2015 07/23/2015	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Pump Control Systems			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_11				
Action/Comments					
Inspector Comments: Controls are free of damage and appear to operate normally.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Sumps/Wet Well			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_12				
Action/Comments					
Inspector Comments: Sump is clear of debris.					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_12\_20150814\_00016.jpg



View of the pump intake system. Note the missing grate at top left corner.

LM Start	0.00	Rating **	M	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_13				
Action/Comments					
Inspector Comments: Trash rack is present, however one panel is missing from rack.					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_13\_20150709\_00006.jpg



Section of trash rack is missing, missing section would be in upper left of photo.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Reclamation District No. 2096 Wetherbee Lake**

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		07/23/2015 07/23/2015	Maksim Khashchuk

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_14				
Action/Comments					
Inspector Comments: No trash rake present.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Sluice / Slide Gates			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_15				
Action/Comments					
Inspector Comments: No slide gates present					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_16				
Action/Comments					
Inspector Comments: Item appears to be in good working condition. Radial arm gate was open at time of inspection.					

Photo 1 of 2 : ST\_2015\_RD2096\_56\_16\_20150814\_00017.jpg



View of the radial arm gate in the open position.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Reclamation District No. 2096 Wetherbee Lake**

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		07/23/2015 07/23/2015	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	16 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start	End	
Item	Electric Gate Operators			37.773864 °	37.773864 °	
				-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_16					
Action/Comments						
Inspector Comments: Item appears to be in good working condition. Radial arm gate was open at time of inspection.						

Photo 2 of 2 : ST\_2015\_RD2096\_56\_16\_20150814\_00018.jpg



View of the gate controls.

LM Start	0.00	Rating **	U	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_17				
Action/Comments					
Inspector Comments: Manual gate operators could not be engaged to test the functionality of the system.					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_17\_20150814\_00019.jpg



View of the manual gate operation control.

LM Start	0.00	Rating **	A	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_18				
Action/Comments					
Inspector Comments: Other exposed metal items are painted or coated to prevent corrosion.					

No Photos

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Reclamation District No. 2096 Wetherbee Lake**

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		07/23/2015 07/23/2015	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations	GPS Latitude/Longitude			
		Start	End		
Item	Flap Gates	37.773864 °		37.773864 °	
		-121.298430 °		-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_19				
Action/Comments					
Inspector Comments: Flap gates appear to be fully operational.					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_19\_20150814\_00020.jpg



View of the flapgates.

LM Start	0.00	Rating **	A	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_20				
Action/Comments					
Inspector Comments: Radial arm gate acts as closure structure, gate was open at time of inspection.					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_20\_20150814\_00021.jpg



Radial arm gate, shown in open position.

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_21				
Action/Comments					
Inspector Comments: Security fencing is in place. Closed circuit cameras are also in place.					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_21\_20150814\_00022.jpg



View of the security fencing around the facility.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Reclamation District No. 2096 Wetherbee Lake**

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		07/23/2015 07/23/2015	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Intake and Discharge Pipes			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_ 2012_22				
Action/Comments					
Inspector Comments: Pipes appear to be free of defects.					

Photo 1 of 1 : ST\_2015\_RD2096\_56\_22\_20150814\_00023.jpg



View of the siphon breakers at the levee crown.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b>		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	A : Acceptable	N : Not Inspected/Rated	
	M : Minimally Acceptable	C : Corrected	
	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	